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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/767,567	01/23/2001	Harold R. Blomquist	TRW(VSSIM)4820	2445
7	590 01/29/2003			
TAROLLI, SUNDHEIM, COVELL, TUMMINO & SZABO L.L.P.			EXAMINER	
1111 LEADER BLDG. 526 SUPERIOR AVENUE CLEVELAND, OH 44114-1400		MILLER, EDWARD A		
CLEVELAND	, OH 44114-1400		ART UNIT	PAPER NUMBER
			3641	<u></u>

DATE MAILED: 01/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

18		Applicati n N .	Applicant(s)			
Offic Action Summary		09/767,567	BLOMQUIST, HAROLD R.			
		Examiner	Art Unit			
		Edward A. Miller	3641			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Peri d for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)🖂	Responsive to communication(s) filed on 18 f	November 2002 .				
2a)⊠		is action is non-final.				
3)						
Disposition of Claims						
4)⊠	Claim(s) <u>1-9,11-13 and 15-20</u> is/are pending in	n the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1,2,4-9,11-13,15,16 and 18-20</u> is/are rejected.					
7)🖂	7)⊠ Claim(s) <u>3 and 17</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-2, 4-9, 11-13, 15, 16, and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mehrotra et al., in view of Rogers et al., and Poole et al. '272.

Mehrotra et al. teaches preparing a solution of AN and phase stabilizer in water, forming a precipitate therefrom and drying such, and then grinding to form powder form. Further, although the method primarily used is drying at moderate temperature, as at col. 3, lines 1-6, Mehrotra et al. at col. 4, lines 15 clearly suggests freeze drying instead. However, details of the freeze drying process are not described in Mehrotra et al. Rogers et al. show a freeze drying process as applied to oxidizer salts such as ammonium perchlorate (col. 1, lines 10-11, 23-26, 39-41). Rogers et al. teach the conventional use of surfactants and solution processing prior to freeze drying to form the particulate oxidizer. The surfactant, col. 2, lines 19-24, 29-34 and 38-46, serves to limit crystal growth, which is desirable in the art to form small particle size. The freeze drying process, col. 2, lines 47-60, results in a porous friable mass of particles which may be further broken up or disintegrated, col. 3, lines 5-7. Although a drum is not taught in Rogers et al., use of any of a variety of notoriously well known apparatus means, including rotating drums, on which the coolant for freezing the solution may be flowed, would have been obvious. While applicant urges that the drum for freezing is not shown, the broad "comprising" scope claims are not deemed to define over the use of a drum surface with flowing FreonTM coolant over such drum, within the broad scope of the claims and within the ambit of Rogers et al., as at col. 5, lines 5-15, the weir being merely a solid surface upon which the coolant (lines 23-24) flows. If the particle size is too large, further disintegrating or grinding would have been obvious.

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In view of Poole et al. '272, for example at col. 4, lines 56-67 and col. 5, lines 45-53, it would have been obvious to substitute potassium nitrate for the potassium fluoride phase stabilizing salt, and in the usual phase stabilizing amounts. Variation of these notoriously well known ingredients and steps in the prior art process of freeze drying to produce PSAN powder would have been obvious to one of ordinary skill in the art. It is well settled that optimizing a result effective variable is well within the expected ability of a person or ordinary skill in the subject art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980), *In re Aller*, 220 F.2d 454, 105 USPQ 233 (CCPA 1955).

- 3. However, upon reconsideration, the specific PVP surfactant claimed in claims 3 and 17 is not deemed to be reasonably suggested in the process as claimed. Therefore, claims 3 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. As to the application of Sampson et al., 09/767,017, applicants' reply is considered to comply with the prior requirement. The terminal disclaimer has been made of record. This application was filed subsequent to the critical date relative to 35 USC 103(c), and thus no rejection lies under 35 USC 102(f)/103 is in point, per MPEP 706 and relevant parts thereafter, including 706.02(k, l) and 706.02(l)(1-3). The pre-grant Publications show that both have common ownership and the same attorney.
- 5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

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calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning either this or an earlier communication from the Examiner should be directed to Examiner Edward A. Miller at (703) 306-4163. Examiner Miller may normally be reached Monday-Thursday, from 10 AM to 7 PM.

If attempts to reach Examiner Miller by telephone are unsuccessful, his supervisor Mr. Carone can be reached at (703) 306-4198. The Group fax number is (703) 305-7687.

If there is no answer, or for any inquiry of a general nature or relating to the application status, please call the Group receptionist at (703) 308-1113.

Miller/em January 27, 2003

EDWARD A. MILL PRIMARY EXAMI: